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## Patent Abstracts of Japan

PUBLICATION NUMBER : 07076094
PUBLICATION DATE : 20-03-95

APPLICATION DATE : 18-06-93
APPLICATION NUMBER : 05172546

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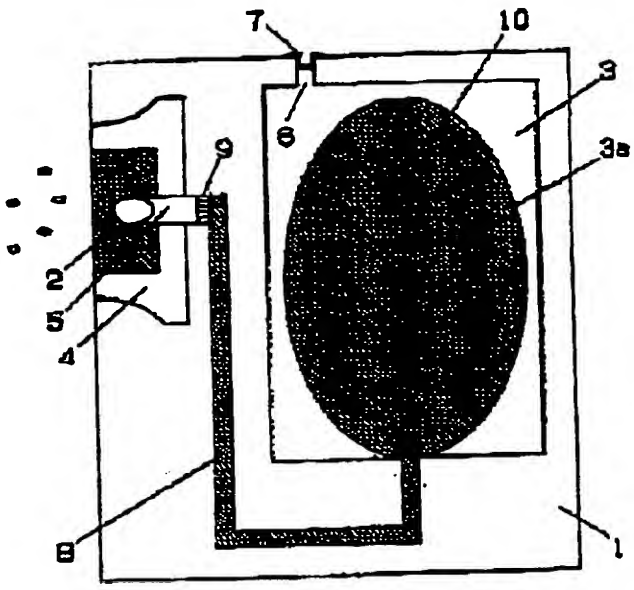
INT.CL. : B41J 2/175

TITLE : INK JET PEN




ABSTRACT : PURPOSE: To provide an ink jet pen capable of keeping the ink pressure of an ink tank almost constant by a simple mechanism and capable of obtaining good printing quality.

CONSTITUTION: Ink passes through a communication passage 8 and a manifold part 5 from the ink bag 3a in an ink tank 3 to be supplied to a recording head 2. The ink tank 3 is allowed to communicate with the atmosphere by an atmosphere communication port 6 but a pressure adjusting part 7 composed of a slitted elastic member is provided to the atmosphere communication port 6. When ink is consumed at the time of printing, the pressure difference between atmospheric pressure and the pressure in the ink tank 3 becomes large and the slit of the pressure adjusting part 7 is opened to supply air into the ink tank 3. When the pressure difference is reduced, the slit is closed. By repeating this operation, the inner pressure of the ink tank 3 is adjusted to a negative pressure range having definite width.

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